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UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.
02012-40121Total Pages in this Submission
4**TO THE ASSISTANT COMMISSIONER FOR PATENTS**Box Patent Application
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for invention entitled:

INTERACTIVE VIRTUAL LIBRARY SYSTEM FOR EXPEDITIOUSLY PROVIDING USER-DESIRED INFORMATION FROM CONTENT PROVIDERS, AT LEAST ONE OF WHICH IS COMMERCIAL, TO A USER WITHOUT THE NEED FOR THE USER TO ACCESS THE CONTENT PROVIDERS INDIVIDUALLY

and invented by:

Alirio I. GOMEZ, Christopher E. CHALSEN, Maria G. DOULOS and Paula M. PRUDENTI

If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:
☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP) of prior application No.: 09/415,578

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.:

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Enclosed are:

Application Elements
☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 25 pages and including the following:

- a. ☒ Descriptive Title of the Invention
- b. ☒ Cross References to Related Applications (if applicable)
- c. ☐ Statement Regarding Federally-sponsored Research/Development (if applicable)
- d. ☐ Reference to Microfiche Appendix (if applicable)
- e. ☒ Background of the Invention
- f. ☒ Brief Summary of the Invention
- g. ☒ Brief Description of the Drawings (if drawings filed)
- h. ☒ Detailed Description
- i. ☒ Claim(s) as Classified Below
- j. ☒ Abstract of the Disclosure

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Application Elements (Continued)

3. ☒ Drawing(s) (when necessary as prescribed by 35 USC 113)
- a. ☐ Formal Number of Sheets _____
- b. ☒ Informal Number of Sheets 6
4. ☐ Oath or Declaration
- a. ☒ Newly executed (original or copy) ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)
- c. ☒ With Power of Attorney ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application,
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
- ☐ Incorporation By Reference (usable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under
Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby
incorporated by reference therein.
- ☐ Computer Program in Microfiche (Appendix)
- ☐ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all must be included)
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy (identical to computer copy)
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. ☐ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(B) Statement (when there is an assignee)
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☒ Certificate of Mailing
- ☐ First Class ☒ Express Mail (Specify Label No.): EL516403774US

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Accompanying Application Parts (Continued)

15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Additional Enclosures (please identify below):

Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)

17. ☐ Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.

Warning

An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.

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(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.
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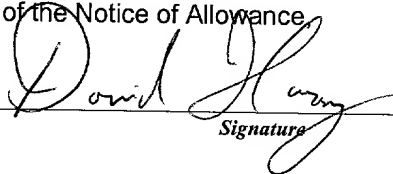
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Fee Calculation and Transmittal

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	24	- 20 =	4	x \$18.00	\$72.00
Indep. Claims	2	- 3 =	0	x \$80.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$710.00
OTHER FEE (specify purpose)					\$0.00
TOTAL FILING FEE					\$782.00

- ☒ A check in the amount of \$782.00 to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 13-3250 as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of as filing fee.
- ☒ Credit any overpayment.
- ☒ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
- ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance pursuant to 37 C.F.R. 1.311(b).


Signature

Dated: October 24, 2000

CC:

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)Applicant(s): **Gomez et al.**

Docket No.

02012-40121

Serial No.

To Be Assigned

Filing Date

October 24, 2000

Examiner

To Be Assigned

Group Art Unit

To Be Assigned

Invention:

INTERACTIVE VIRTUAL LIBRARY SYSTEM FOR EXPEDITIOUSLY PROVIDING USER-DESIRED INFORMATION FROM CONTENT PROVIDERS, AT LEAST ONE OF WHICH IS COMMERCIAL, TO A USER WITHOUT THE NEED FOR THE USER TO ACCESS THE CONTENT PROVIDERS INDIVIDUALLY

I hereby certify that the following correspondence:

Continuation-In-Part Application; Figs. 1-6 (6 sheets); CIP Application Transmittal; Check for \$782.00; Postcard*(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231 on

October 24, 2000*(Date)***Michella McKenzie***(Typed or Printed Name of Person Mailing Correspondence)**(Signature of Person Mailing Correspondence)***EL516403774US***("Express Mail" Mailing Label Number)***Note: Each paper must have its own certificate of mailing.**

**INTERACTIVE VIRTUAL LIBRARY SYSTEM FOR EXPEDITIOUSLY PROVIDING
USER-DESIRED INFORMATION FROM CONTENT PROVIDERS, AT LEAST ONE OF
WHICH IS COMMERCIAL, TO A USER WITHOUT THE NEED FOR THE USER TO
ACCESS THE CONTENT PROVIDERS INDIVIDUALLY**

5

Related Application

This application is a continuation-in-part of co-pending application Serial
No. 09/415,58 filed October 8, 1999, which is incorporated herein by this
reference.

Background Of The Invention

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The present invention relates to an interactive virtual library system. More
specifically, this invention relates to an interactive virtual library system for
expeditiously: (1) providing user-desired information from content providers, at
least one of which is a commercial content provider, to a user without the need
for the user to access the content providers individually; and (2) providing a
customized user interface through which a user with appropriate security
privilege can access relevant electronic files and providing a user with
appropriate security privilege the right to modify and/or upload electronic files.

15

20

Presently, a user of a personal computer ("PC") can access information
from a content provider, such as Lexis[®]-Nexis[®] or WestLaw[®] or U.S. Securities
and Exchange Commission world wide web site, by establishing a
telecommunication link with the computer of the content provider and performing
a search to obtain the information desired by the user. For example, the search
may seek all relevant information in the databases accessible to the content

provider pertaining to a specific company. Generally, the search results will be displayed on the user's monitor in numerical or chronological order.

While the conventional systems for accessing desired information from content providers are satisfactory, there are disadvantages presented by these systems. First, with existing systems, there is required much navigation (i.e., using an input device, such as a PC "mouse" or a keyboard, to go through various files and display pages) by the user to obtain the desired information from the various relevant databases. For example, with the conventional systems, a user has to establish a separate telecommunication link with each content provider to access that content provider's databases. With commercial content providers, i.e., content providers requiring payment for information access, the user generally has to enter at least authorized user identification and password in order to establish a telecommunication link. Then after establishing the telecommunication link, the user is required to navigate to obtain the desired information. This process becomes more and more cumbersome as the number of content providers accessed by the user increases.

Second, the existing systems do not provide for much, if any, customization of user interfaces. For example, there may be specific informational topics from Lexis[®]-Nexis[®] or another content provider for which a first user desires periodic information updates. If the first user is an employee of a company in charge of monitoring the activities of competitors, these topics may include financial news relating to each of the competitors, news relating to all lawsuits filed in the industry, and information pertaining to any patents, copyrights or trademarks obtained by the competitors. A second user, by contrast, may

desire information updates from specific legal periodicals and technical journals. Despite the different informational topics desired by the first and second users, however, the user interface provided by a conventional system to both users is the same.

5 A third disadvantage of the conventional systems is illustrated by the following example. After the user has reviewed the desired information from a content provider, she may want to contact an appropriate person to discuss what she read. For example, if what she read relates to issuance of a patent to a competitor that effects her company's products, then she may want to contact the
10 company's outside patent counsel for advice. With existing systems, there is no way for her to initiate contact with the outside patent counsel within the system. If she wants to use e-mail for this purpose, then she will have to go to the e-mail application and run it.

 What is desired, therefore, is an interactive virtual library system that
15 addresses the above-described disadvantages of existing systems. Furthermore, it is desired that such an interactive virtual library system provide a customized user interface through which a user with appropriate security privilege can access relevant electronic files (e.g., agreements in electronic form), and provide a user with appropriate security privilege the right to modify
20 electronic files in the library system or upload electronic files to the library system.

 It is axiomatic by now that the Internet has revolutionized how people work, live and play. To take an example, prior to the use of the Internet, lawyers or business people negotiating an agreement would mail or fax draft agreements

back and forth until an agreement was finalized. Today, such draft agreements are often e-mailed back and forth until an agreement is finalized. While the use of e-mail to send documents back and forth results in significant time savings, it is not satisfactory in some cases.

5 For example, the lawyers or business people negotiating the agreement may also want up-to-date news information relating to the subject matter of the agreement. Also, there may be additional information or other documents that may need to be made accessible to the parties. Therefore, what is desired is an interactive virtual library system as described above, that also addresses these
10 needs.

Summary Of The Invention

Accordingly, it is an object of the invention to provide a virtual library system that minimizes navigation by a user in obtaining desired information from various databases and from various content providers.

5 Another object of the invention is to provide a virtual library system that has a customizable user interface.

Still another object of the invention is to provide a virtual library system that expeditiously allows a user to contact a person specified by the user regarding the information obtained.

20 Yet another object of the invention is to provide a virtual library system having the above-described features adaptable for both intranet and extranet use.

Still another object of the invention is to provide a virtual library system that has a customizable user interface through which a user with appropriate security privilege can access relevant electronic files and modify and/or upload electronic files.

5 These and other objects are achieved by an interactive library system having a computer in telecommunication link with at least one user computer and computer of at least one content provider requiring payment for information access. The interactive library system performs the following:

- 10 (i) receiving, by the library system computer, user identification and password from the user computer;
- (ii) comparing, by the library system computer, the received user identification and password with the authorized user identifications and corresponding passwords stored in the interactive library system to determine whether to grant access to the interactive library system;
- 15 (iii) if comparison results in grant of access, then the library system is capable of performing one or both of the following:
- (iv) receiving, by the library system computer, input from the user computer specifying type of information desired by the user;

 establishing, by the library system computer, telecommunication link with
20 the content provider computer;

 transmitting, by the library system computer, the type of information desired by the user as a search request to the content provider computer;

 receiving, by the library system computer, result of the search request from the content provider computer; and

providing, by the library system computer, the result to the user computer;

(v) setting, by the library system computer, the user's privileges;

if the user's privileges correspond to a first preselected level of access,
then providing, by the library system computer, access to information in a Deal

5 Room; and

if the user's privileges correspond to a second preselected level of access,
then providing, by the library system computer, right to modify Deal Room
information and/or upload electronic files to the Deal Room.

Brief Description Of The Drawings

10 **FIG. 1** shows an embodiment of an interactive library system of the
present invention;

FIG. 2 shows a flowchart of one operation of the interactive library system
of FIG. 1;

15 **FIG. 3** is a flowchart showing additional functionalities providable to the
interactive library system of FIG. 1;

FIG. 4 shows an embodiment of a customized user interface provided by
the interactive library system of FIG. 1;

FIG. 5 shows a flowchart of another operation of the interactive library
system of FIG. 1; and

20 **FIG. 6** shows another sample customized user interface provided by the
interactive library system of FIG. 1.

Detailed Description Of The Preferred Embodiment

Figure 1 shows an embodiment of an interactive library system 10 of the present invention in telecommunication link with user computers, four of which are shown as reference numerals 11-14, via telecommunication lines 15-18, respectively. The interactive library system 10 and one or more of the user computers 11-14 may be part of an intranet, i.e., internal company network, or an extranet, i.e., network where the library system 10 is accessible to outside third party users. As will be apparent to someone skilled in the art, the interactive library system 10 of the present invention is configured to work in both intranet and extranet system architectures.

The library system 10 is also in telecommunication link with computers of content providers, only two of which are shown by reference numerals 20, 22, via telecommunication lines 24, 26, respectively. At least one of the content providers is a commercial content provider, i.e. requiring payment for information access. The telecommunication links may be over a local area network ("LAN") or an Internet connection using a public switched phone network or a cable network. Connection may also be provided by dedicated data lines, cellular, Personal Communication Systems ("PCS"), microwave, satellite networks, or other means known in the art.

The library system 10 of FIG. 1 includes a computer 30 having a microprocessor and memory, and a first and second storage units 31, 32. The computer 30 is preferably a server. A program 34, which is preferably stored in memory of the computer 30, is operable on the microprocessor. The operation of the program 34 will be described in greater detail with respect to Figures 2, 3 and

5. As used herein, "program" may be source code having one or more subroutines or object code or the like. The first storage unit 31, which is preferably a database, stores data related to users, such as authorized user identifications and corresponding passwords, user account data, and type of information desired by the users. It should be noted that data related to users may be stored in more than one storage unit. The second storage unit 32, which is also preferably a database, stores data relating to the "Deal Rooms," as will be described in greater detail hereinbelow. Data relating to the Deal Rooms may be stored in more than one storage unit. In addition, the data in the first and second storage units 31, 32 may be stored in one storage unit, if desired. While FIG. 1 shows the storage units 31, 32 as part of the library system 10, it should be apparent to one skilled in the art that one or both of the storage units may be external to the library system of the present invention.

Figure 2 is a flowchart of one operation of the interactive library system 10 of FIG. 1. At step 100, a user computer 11-14 establishes a telecommunication link with the library system 10. The user will then be prompted to provide a user identification and password (step 102). User ID and password may be input by the user through a keyboard, voice recognition system or other known input means, or the user ID and password may be stored in memory of the user computer 11-14 and provided to the library system 10. At step 104, the library system 10, preferably the microprocessor of the library computer 30, compares the received user ID and password with authorized user IDs and corresponding passwords stored in the first storage unit 31.

If the received user ID and password are found to be authorized, then the user is allowed access into the library system 10; otherwise, the user is prompted to provide another user ID and password (step 106). If access is allowed, then at step 108, the user may: (i) input type of information desired, e.g., financial news
5 relating to companies in a specific industry; or (ii) choose to use a previously input search request, e.g., request for financial news relating to companies in a specific industry saved previously; or (iii) use a preselected search request, e.g., a selectable icon labeled "Internet-related Lawsuits" appearing on the user interface, the selection of which (such as by clicking with a PC "mouse") is a
10 request for information relating to Internet-related lawsuits. As used herein, "search request" is to be construed broadly, to include any request for information, such as entering search terms, selecting an icon or a hyperlink, etc.

At step 110, the library system 10 establishes a telecommunication link(s) with relevant preselected content provider(s) based on the user's search request.
5 In the preferred embodiment, at least one of the content providers is a commercial content provider. For example, if the request is for financial news relating to companies in a specific industry, the library system 10 may establish telecommunication links with preselected commercial content providers, such as Lexis®-Nexis® and WestLaw®, as well as preselected free content providers
20 available on the Internet. Relevant content providers' information (e.g., Internet protocol address or web site domain name) is stored in either the memory of the library computer 30 or one of the storage units 31, 32 such that the program 34 may operate the microprocessor to access this stored information to enable the library system 10 to establish telecommunication links with the preselected

content providers. Where necessary, such as for content providers which require user ID and password for access, the program 34 further operates the microprocessor of the library computer 30 to access such stored information from either the memory of the library computer 30 or one of the storage units 31, 32 to enable access to these content providers.

At step 112, the program 34 operates on the microprocessor of the library computer 30 to transmit the user's search request to the connected content provider(s). The result of the search request is received by the library system 10 from the content provider(s) at step 114. Finally, at step 116, the result is provided by the library system 10 to the corresponding user computer 11-14. While not shown in FIG. 2, it should be apparent to one skilled in the art that following step 116, the library system 10 may return to step 108 for additional search requests or the user may choose to logout or otherwise end access to the library system 10.

FIG. 3 is a flowchart showing additional functionalities that may be provided to the interactive library system 10 of FIG. 1. In addition to the steps set forth in FIG. 2, the user is provided with the option of requesting the library system 10 to perform a search request at a preselected time interval (step 130). For example, the user may request that a search for financial news relating to companies in a specific industry be performed once a week. This preselected time interval chosen by the user is preferably stored in the first storage unit 31. Step 130 may follow step 108 of FIG. 2. At step 132, the library system determines whether the preselected time interval has transpired.

If the preselected time interval has transpired, then the library system 10 performs steps 110-114 of FIG. 2. Optionally, if requested by the user, the library system 10 may notify the user after receiving result of the search request from the content provider(s) that such results are ready for review by the user (step 134). Notification is preferably by electronic communication means, such as an appropriate e-mail message to the user.

Each user of the library system 10 may request that she be provided with a customized user interface. FIG. 4 shows an embodiment of a customized user interface 40 for User 1 (User 1's computer is reference numeral 11 in FIG. 1).

The customized user interface 40 is developed based on information provided by the user 11. The customized user interface data may be stored in the first storage unit 31, or it may be stored in the user's computer 11 from which the library system 10 will access the data to provide the customized user interface.

The user interface 40 may be developed using templates or other means known to those skilled in the art to provide flexibility and expeditious configurability.

Along the left-hand side and the top of the user interface 40, there are shown types of information desired by this user -- such as "Periodicals," "SEC Reports," "Competitors' Financials," "Industry Lawsuits," and "Issued Patents, Copyrights, and Trademarks" -- as selectable words or buttons. The user interface 40 is designed so that these selectable words or buttons are accessible by the user via an input device, such as the PC "mouse."

There is displayed a numerical list 44 of results of a search request received from content providers 20, 22. For example, this may be a list of patents, copyrights and trademarks issued to competitors within the last week. If

the user desires to see an updated list of industry lawsuits, then she uses an input device to select "Industry Lawsuits." The library system 10 will perform steps 110-116 of FIG. 2 to provide an updated list of lawsuits on the display screen.

5 The user interface 40 also includes a selectable button 50 for electronically communicating with a contactee preselected by the user. In the exemplary drawing of Figure 4, the electronic communication means is by e-mail and the preselected contactee is an attorney 42. As an example, if the user 11 is reviewing the list of patents, copyrights and trademarks issued to competitors and discovers that one of the issued patents relates to her company's products,
10 then she may want to immediately contact her company's patent counsel 42 for advice. She can contact the patent attorney 42 by choosing the selectable button 50 with the appropriate input device. This will automatically run the e-mail application, by which the desired message can be sent over an appropriate local area network, wide area network, or other connection means as described above
5 with respect to FIG. 1.

It should be apparent to one skilled in the art that the configuration of the user interface in FIG. 4 is merely one of many possibilities. The types of information desired by a user may be placed anywhere on the display screen and
20 in any order desired. Also, although a numerical list of relevant information is illustrated in FIG. 4, the relevant information may be displayed in any suitable format.

FIG. 5 is a flowchart of another operation of the interactive library system 10 of FIG. 1. Steps 100-106 are as set forth in connection with description of

FIG. 2. Thus, a user computer 11-14 establishes a telecommunication link with the library system 10 (step 100). The user will then be prompted to provide a user identification and password (step 102). User ID and password may be input by the user through a keyboard, voice recognition system or other known input means, or the user ID and password may be stored in memory of the user computer 11-14 and provided to the library system 10. At step 104, the library system 10, preferably the microprocessor of the library computer 30, compares the received user ID and password with authorized user IDs and corresponding passwords stored in the first storage unit 31. If the received user ID and password are found to be authorized, then the user is allowed access into the library system 10; otherwise, the user is prompted to provide another user ID and password (step 106).

When the library system 10 determines that the user is authorized, the system 10 sets the user's privileges based on the user ID and/or password (step 200). Each authorized user's level of access is preferably stored in the first storage unit 31. For a user with one preselected level of access, she may have the right to review and/or download information in a "Deal Room." This is indicated by reference numeral 202. As used herein, "Deal Room" refers to a unique subject matter, all information relating to which may be accessible preferably through one user interface screen (or related user interface screens). See Figure 6.

For example, the subject matter of one Deal Room may be a patent license agreement. The Deal Room in this case may include a copy of the patent to be licensed, a draft patent license agreement, and news relating competitors

of the licensee. Another Deal Room may pertain to a deal to finance a building project in a foreign country. In this case, the Deal Room may include information about the foreign country's laws and regulations pertaining to the project, draft agreement of the project finance deal, and contact information of all people and institutions relevant to the project.

A user with another preselected level of access may have the right to modify information in a Deal Room and/or upload electronic files to a Deal Room (preferably in addition to the right to access information in the Deal Room 202).

This is indicated by reference numeral 204. Returning to the patent license agreement Deal Room example above, let's assume that user 1 in FIG. 1 is a patent attorney for the patent licensor and that he has the right to modify and upload electronic files to the Deal Room. He can draft the initial patent license agreement and upload it to the Deal Room. The licensee's patent attorney, who also has the right to modify and upload electronic files to the Deal Room, can review the initial draft agreement and modify it. He can upload this modified draft agreement to the Deal Room.

A user with still another preselected level of access may have the right to create a "Deal Room" using a "Deal Room" wizard (software application program) provided by the library system 10. This is indicated by reference numeral 206. The "Deal Room" wizard, which may be part of the program 34 or another software program stored in memory of the computer 30, requests user input to preselected questions. Based on the user entries and preferably utilizing templates, the "Deal Room" wizard program creates a Deal Room (such as shown in FIG. 6). It should be understood that the three preselected levels of

access described in connection with FIG. 5 are exemplary only. There may be more or less as desired. Also, it should be understood that the three rights 202, 204, 206 described in connection with FIG. 5 are exemplary only. There may be more or less as desired.

5 FIG. 6 shows a sample Deal Room screen 230 created using the "Deal Room" wizard for the patent license agreement example described above. This sample Deal Room screen is created for Microsoft's Windows-based operating system. However, the sample Deal Room screen may be created for any other operating system. The sample Deal Room screen 230 includes a patent folder 232, a license agreement folder 234, a competitor news folder 236 and a contact information folder 238. Although not shown, each folder may include sub-folders. By selecting a folder, an authorized user can see what content the folder contains on the main screen portion 240. For example, by selecting the license agreement folder 234, the user can see what license agreement, if any, the folder contains.

10 The appearance of the sample Deal Room screen 230 is for exemplary purposes only. The organization and presentation of the screen may be varied, as known to those of ordinary skill in the art, without deviating from the scope and spirit of the invention.

20 A user may be charged a fee for use of the library system 10 of the present invention. While not to be construed as exhaustive, the following methods (alone or some combination thereof) are contemplated: First, a user may be billed based on the time amount of access to the library system 10. The time amount of access data for users are preferably stored in the first storage

unit 31. After a preselected time period, such as one month, an account statement for the user will be generated.

Second, a user may be billed based on the time amount of access to each content provider. The time amount of access to each content provider data for users are preferably stored in the first storage unit 31. After a preselected time period, such as one month, an account statement for the user will be generated.

Third, a user may be billed based on the time amount of access to commercial content providers. The time amount of access to commercial content providers data for users are preferably stored in the first storage unit 31. After a preselected time period, such as one month, an account statement for the user will be generated.

Fourth, a user may be billed based on the number of search queries transmitted by the library system 10 to the content providers. The number of transmitted search queries data for users are preferably stored in the first storage unit 31. After a preselected time period, such as one month, an account statement for the user will be generated.

Finally, a user may be billed directly by the content providers accessed by the user through the library system 10. How to bill the user will be determined by each content provider accessed. For example, the user may be billed based on the time amount of access to the content provider or the number of search queries transmitted to the content provider. The content providers will access the user information stored in the first storage unit 31 of the library system 10 to generate an account statement.

Those skilled in the art will recognize that the method and apparatus of the present invention has many applications, and that the present invention is not limited to the representative examples disclosed herein. Moreover, the scope of the present invention covers conventionally known variations and modifications
5 to the methods and system components described herein, as would be known by those skilled in the art.

What is claimed is:

1. In an interactive library system having a computer in telecommunication link with at least one user computer and computer of at least one content provider requiring payment for information access, a method which comprises:
 - receiving, by the library system computer, user identification and password from the user computer;
 - comparing, by the library system computer, said received user identification and password with authorized user identifications and corresponding passwords stored in the library system to determine whether to grant access to the interactive library system;
 - if comparison results in grant of access, then the library system is capable of performing one or both of the following:
 - (1) receiving, by the library system computer, input from the user computer specifying type of information desired by the user; - establishing, by the library system computer, telecommunication link with the content provider computer;
 - transmitting, by the library system computer, said type of information desired by the user as a search request to the content provider computer;
 - receiving, by the library system computer, result of said search request from the content provider computer; and
 - providing, by the library system computer, said result to the user computer;
 - (2) setting, by the library system computer, the user's privileges;

22 if the user's privileges correspond to a first preselected level of access,
23 then providing, by the library system computer, access to information in a Deal Room;
24 and
25 if the user's privileges correspond to a second preselected level of access,
26 then providing, by the library system computer, right to modify Deal Room information
27 and/or upload electronic files to the Deal Room.

1 2. The method of claim 1, further comprising:
2 customizing a user interface provided by the interactive library system to the user
3 computer based on type of information desired by the user.

1 3. The method of claim 1, further comprising:
2 providing a user interface, by the interactive library system to the user computer,
3 that includes an interactive element, the selection of the interactive element by the user
4 activating a communication program to enable communication with a pre-selected
5 contactee.

1 4. The method of claim 1, further comprising:
2 if the user's privileges correspond to a third preselected level of access, then
3 providing, by the library system computer, right to create a Deal Room.

1 5. The method of claim 4, wherein the creation of the Deal Room is through a
2 software application program provided by the library system computer.

1 6. The method of claim 1, further comprising:
2 determining, by the library system computer, time amount of access to the
3 interactive library system by the user computer; and
4 storing, in the library system, the time amount of access to the interactive library
5 system by the user computer.

1 7. The method of claim 6, further comprising:
2 generating an account statement after a preselected period of time based on the
3 time amount of access for the user computer stored in the library system.

1 8. The method of claim 1, further comprising:
2 determining, by the library system computer, time amount of access by the user
3 computer to each content provider; and
4 storing, by the library system, the time amount of access by the user computer to
5 each content provider.

1 9. The method of claim 8, further comprising:
2 generating an account statement after a preselected period of time based on the
3 time amount of access by the user computer to each content provider stored in the
4 library system.

1 10. The method of claim 1, further comprising:
2 determining, by the library system computer, time amount of access by the user
3 computer via the library system computer to each content provider requiring payment
4 for information access; and
5 storing, by the library system, the time amount of access by the user computer to
6 each content provider requiring payment for information access.

1 11. The method of claim 10, further comprising:
2 generating an account statement after a preselected period of time based on the
3 time amount of access by the user computer to each content provider requiring payment
4 for information access stored in the library system.

1 12. The method of claim 1, further comprising:
2 determining, by the library system computer, number of the search requests
3 transmitted to the content providers for the user computer; and
4 storing, by the library system, the number of search requests transmitted for the
5 user computer.

1 13. The method of claim 12, further comprising:
2 generating an account statement after a preselected period of time based on the
3 number of search requests for the user computer stored in the library system.

1 14. The method of claim 1, further comprising:
2 accessing, by the content providers accessed by the user computer through the
3 library system, preselected user information stored in the library system; and
4 generating an account statement, by the content providers accessed by the user
5 computer, after a preselected time period based on the preselected user information
6 stored in the library system.

1 15. The method of claim 1, further comprising:
2 receiving, by the library system computer, input from the user computer
3 specifying a preselected time interval for transmitting search request to the content
4 provider.

1 16. The method of claim 1, further comprising:
2 notifying, by the library system computer, the user computer that the result of the
3 search request is ready for review by the user.

1 17. The method of claim 16, wherein the notification is by electronic communication.

1 18. An interactive library system providing telecommunication links with at least one
2 user computer and computer of at least one content provider requiring payment for
3 information access, which comprises:

4 a library computer adapted to receive and transmit data over telecommunication
5 links, the library computer having a microprocessor and a first storage unit;

6 a second storage unit electrically coupled to the library computer to store user
7 identifications, corresponding passwords and levels of access;

8 a third storage unit electrically coupled to the library computer to store
9 information relating to a Deal Room;

10 a program, operable on the microprocessor, stored in the first storage unit, the
11 program comparing user identification and password received from the user computer
12 with the user identifications and corresponding passwords stored in the second storage
13 unit to determine whether the user computer is authorized; and

14 the program, if the user computer is determined to be authorized, causing one or
15 both of the following: (i) the library computer to communicate with the content provider
16 computer to transmit type of information desired by the user as a search request and to
17 receive result of the search request; (ii) setting the user computer's privileges such that
18 if the user computer's privileges correspond to a first preselected level of access, then
19 causing the library system computer to provide access to information in the Deal Room,
20 and if the user computer's privileges correspond to a second preselected level of
21 access, then causing the library system computer to provide right to modify Deal Room
22 information and/or upload electronic files to the Deal Room.

1 19. The interactive library system of claim 18, which further comprises:

2 a fourth storage unit electrically coupled to the library computer to store user-
3 specific data.

1 20. The interactive library system of claim 19, wherein the user-specific data includes
2 customized user interface data.

1 21. The interactive library system of claim 19, wherein the user-specific data includes
2 user account data.

1 22. The interactive library system of claim 21, wherein the user account data
2 includes time amount of access by the user computer to the library computer.

1 23. The interactive library system of claim 21, wherein the user account data
2 includes time amount of access by the user computer via the library computer to the
3 computer of each content provider requiring payment for information access.

1 24. The interactive library system of claim 19, wherein the second and fourth storage
2 units are the same.

Abstract Of The Disclosure

The present invention provides an interactive library system having a computer in telecommunication link with at least one user computer and computer of at least one content provider requiring payment for information access. The interactive library system performs the following: Receiving, by the library system computer, user identification and password from the user computer. Comparing, by the library system computer, the received user identification and password with authorized user identifications and corresponding passwords stored in the library system to determine whether to grant access to the interactive library system. If the comparison results in grant of access, then the interactive library system provides one or both of the following:

(1) Receiving, by the library system computer, input from the user computer specifying type of information desired by the user. Establishing, by the library system computer, telecommunication link with the content provider computer. Transmitting, by the library system computer, the type of information desired by the user as search request to the content provider computer. Receiving, by the library system computer, result of the search request from the content provider computer. And providing, by the library system computer, the result to the user computer. (2) Setting, by the library system computer, the user's privileges. If the user's privileges correspond to a first preselected level of access, then providing, by the library system computer, access to information in a Deal Room. And if the user's privileges correspond to a second preselected level of access, then providing, by the library system computer, right to modify Deal Room information and/or upload electronic files to the Deal Room.

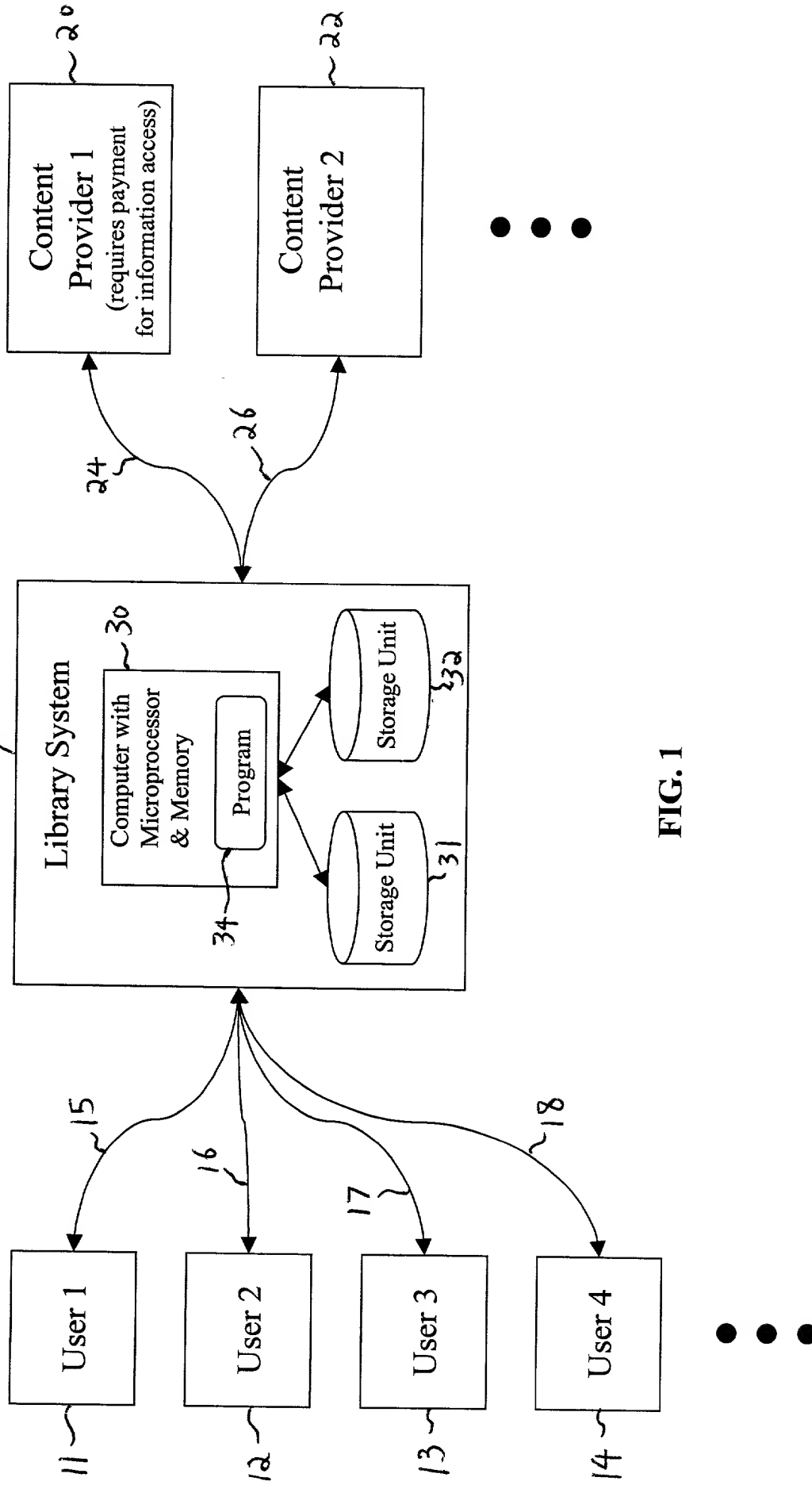


FIG. 1

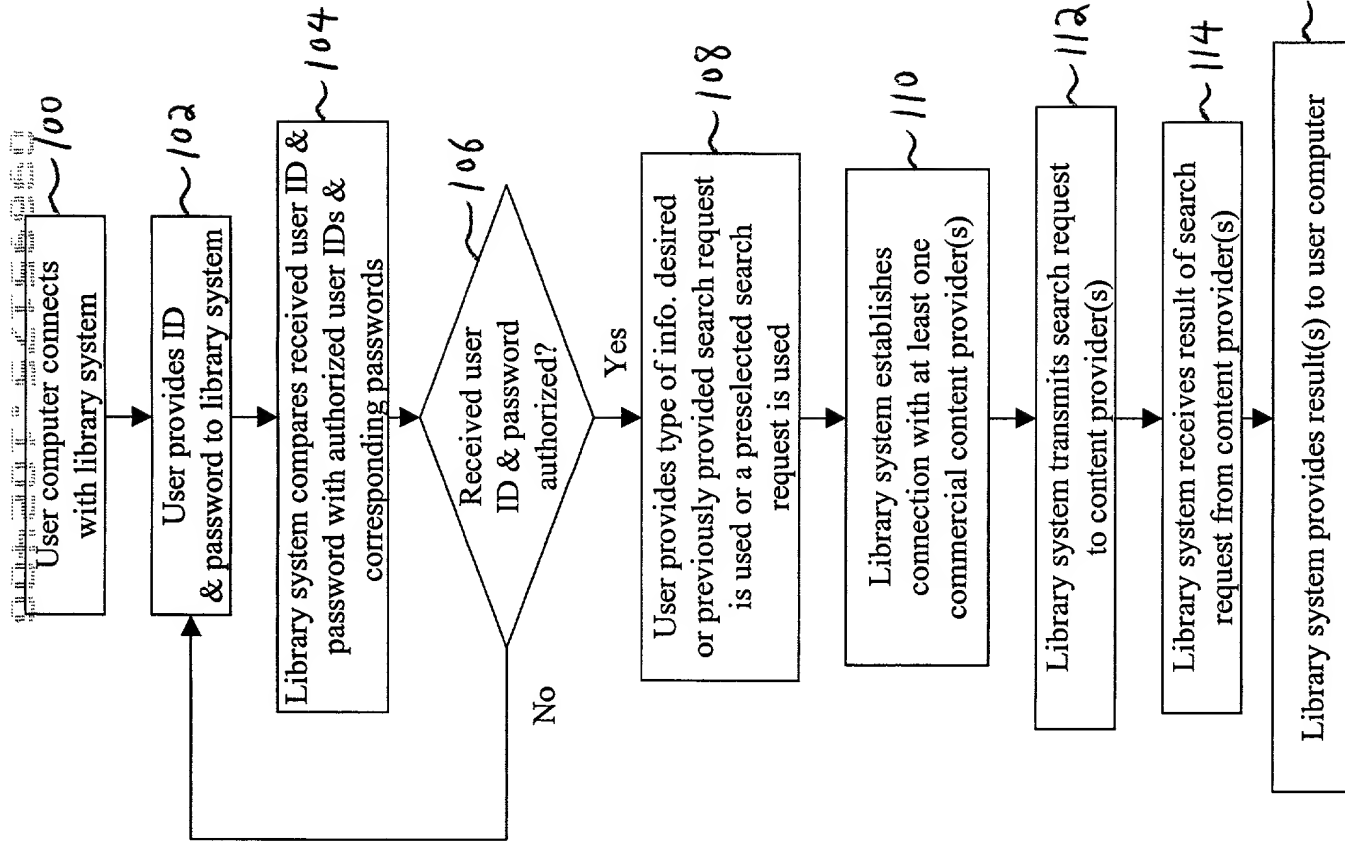


FIG. 2

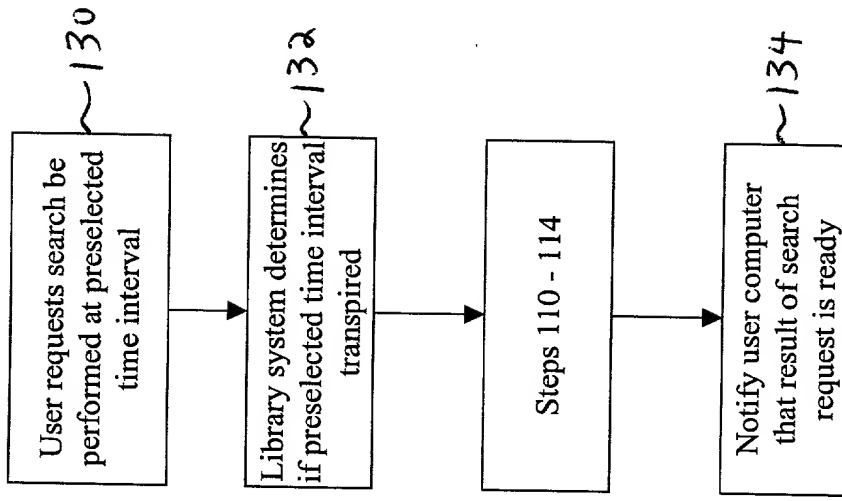


FIG. 3

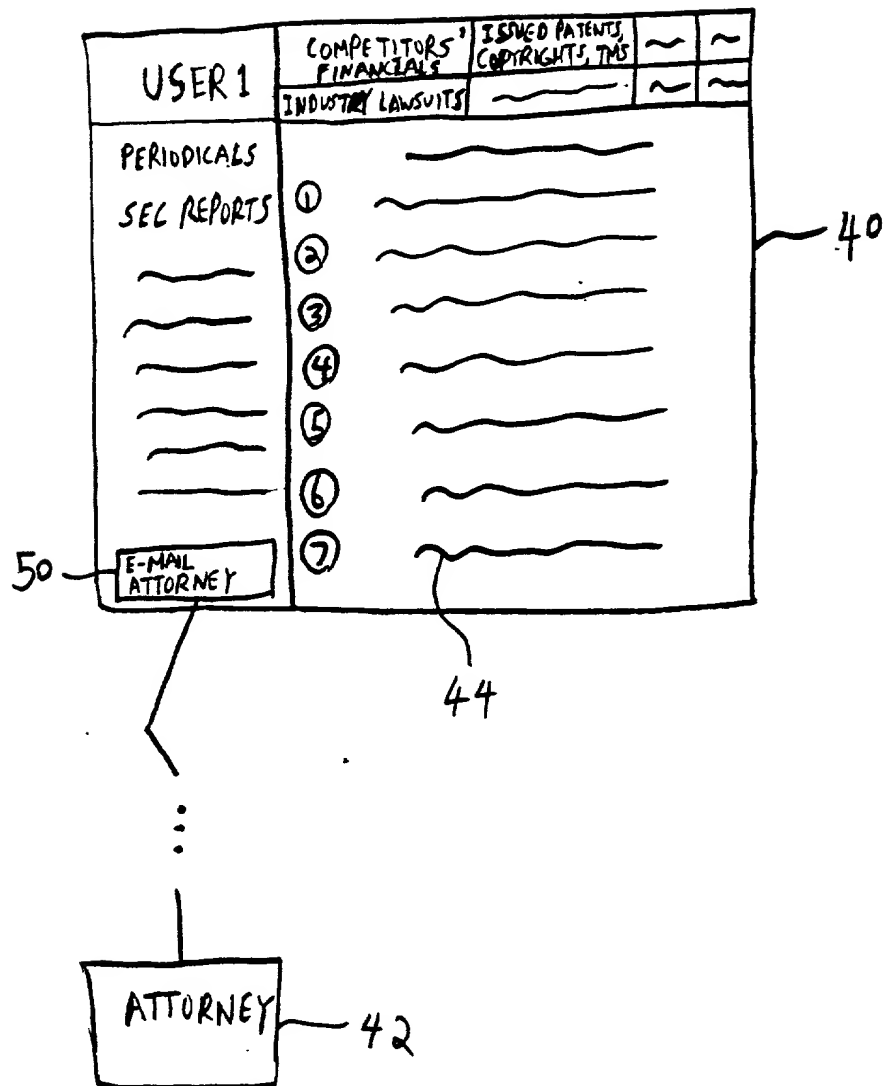


FIG. 4

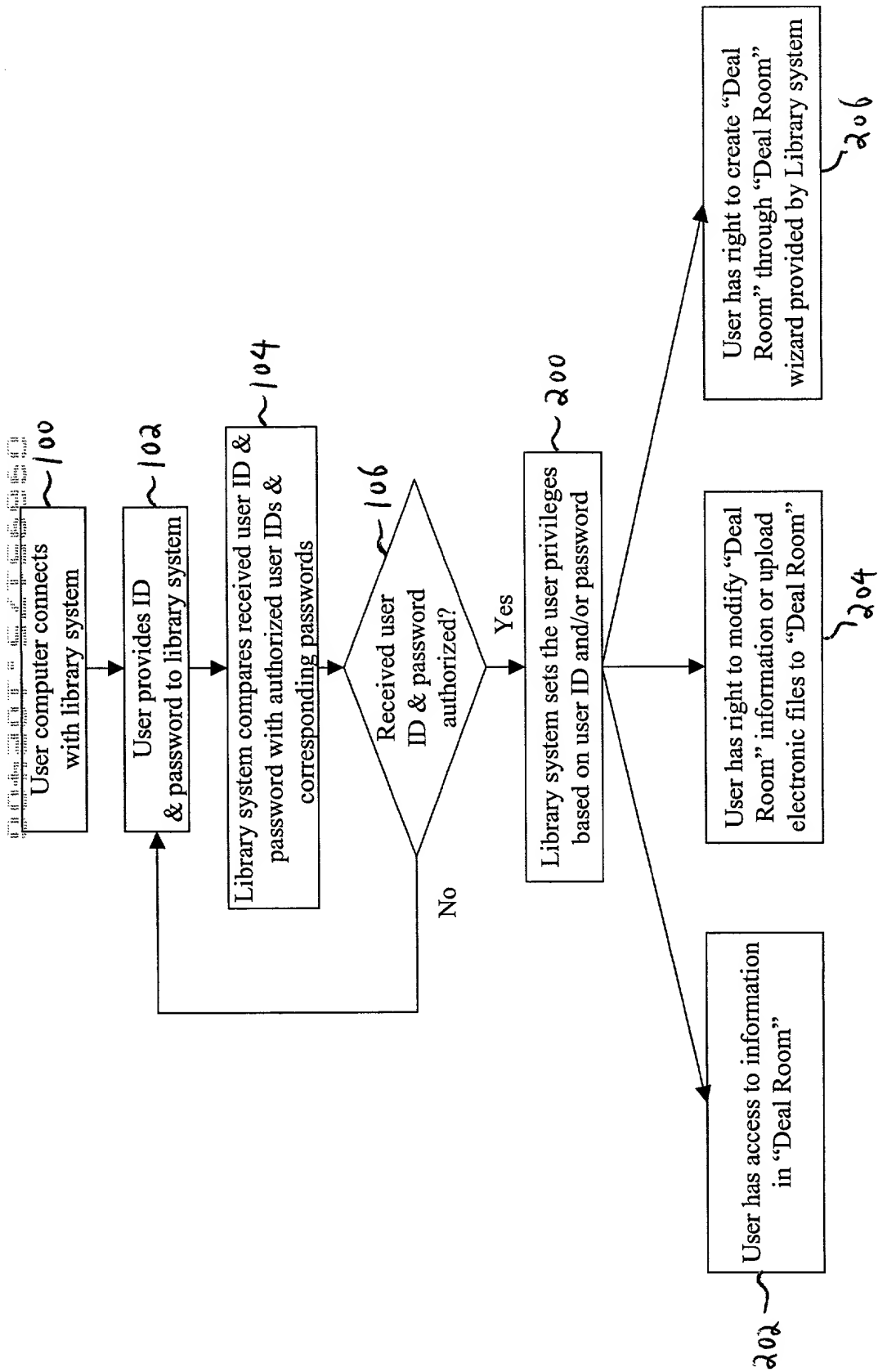


FIG. 5

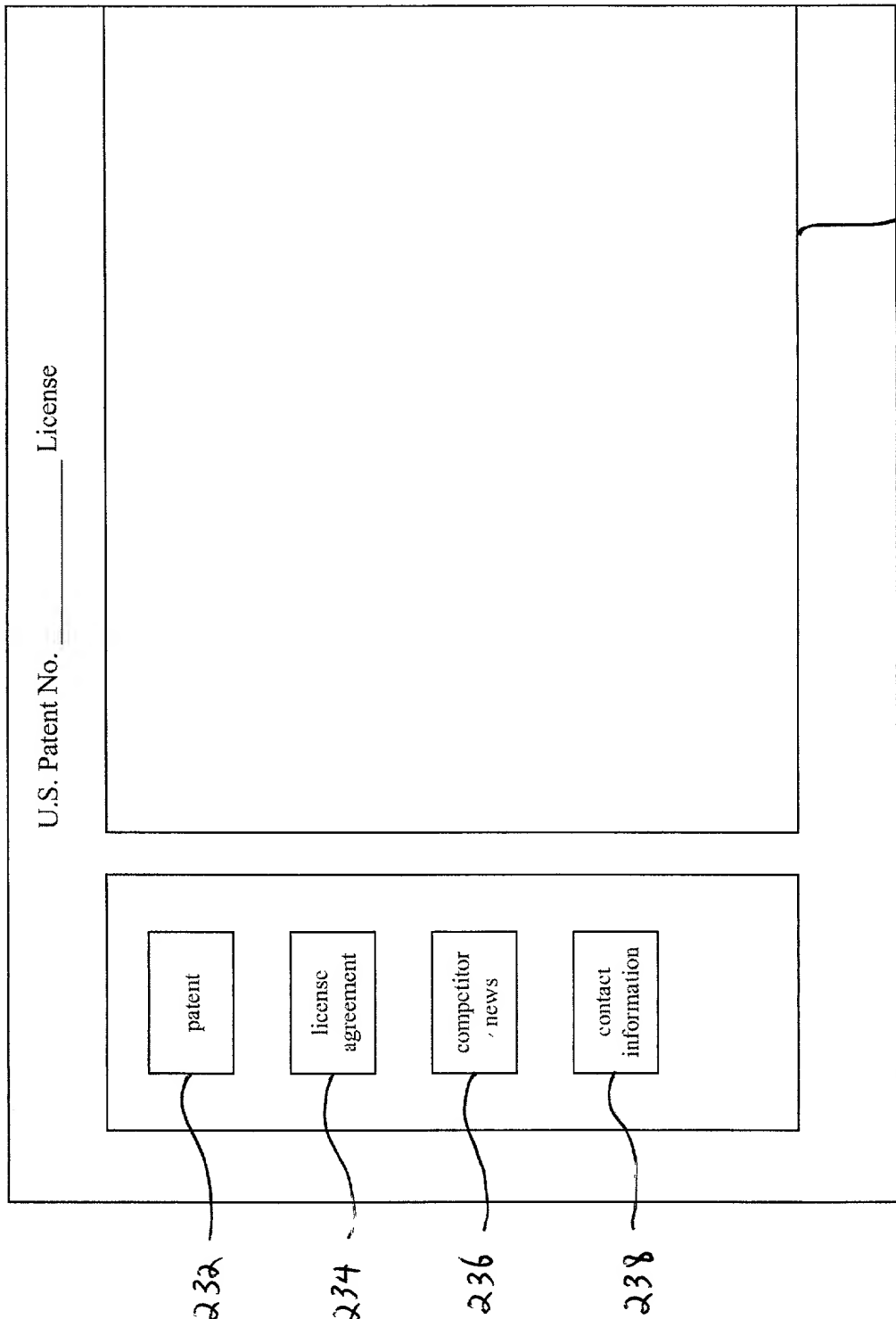


FIG. 6

Docket No.

02012-40121

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

INTERACTIVE VIRTUAL LIBRARY SYSTEM FOR EXPEDITIOUSLY PROVIDING USER-DESIRED INFORMATION FROM CONTENT PROVIDERS, AT LEAST ONE OF WHICH IS COMMERCIAL, TO A USER WITHOUT THE NEED FOR THE USER TO ACCESS THE CONTENT PROVIDERS INDIVIDUALLY

the specification of which

check one)

☒ is attached hereto.

☐ was filed on _____ as United States Application No. or PCT International Application Number _____

and was amended on _____
(if applicable)

hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

(Number)

(Country)

(Day/Month/Year Filed)

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(Country)

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I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

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(Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

09/415,578

October 8, 1999

PENDING

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

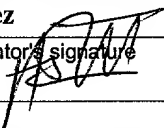
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

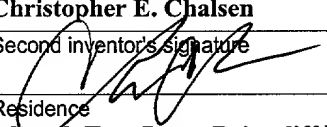
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